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| ECE574 Final Project-Calculate PI Benchmark |
| HeQihaoECE574April 6, 2017 |

# Abstract

A 100 to 175-word summary of your term paper.

The Abstract begins a new page. The title page is in its own section and is not counted in the total number of pages appearing in the footer.

Part 4: Project Writeup, Officially due 5 May 2017 (45pts)

This will be a short paper (at least 6 pages, but you can include pictures, diagrams, etc.) that must contain

all of the following:

1. Introduction: What your project is and what the goal was.

2. Related work. List and properly cite at least three related projects that did similar work (academic papers would be best, but you can also cite websites and such). Describe how your work differs from the previous work.

3. Hardware

(a) Describe the computing hardware that you run on. Say if it is shared memory, a distributed system, or something else. List the CPU (architecture, type, speed), RAM, and network.

4. Software

(a) Programming Language: Which one did you use? Why?

(b) Also list the versions for the operating system and other software. This is useful if anyone tries to reproduce this work down the road.

5. Project Overview and Results(a) Write about what you did.(b) Write about any results you obtained.(c) If your project involves performance, give time and power comparisons if possible. (d) Pictures and graphs are useful, if applicable.2

(e) Feel free to write about things that \*didn’t\* work. That’s still of interest too. 6. Conclusion

(a) If you worked in a group: List who worked on what part.

(b) Summarize what you did.

(c) Future Work: List any improvements you might make if you had more time and resources to work on the project.

7. Appendix

(a) I would like a copy of any relevant source code if possible. (this can be submitted as a separate file, does not have to be included in the report).

(b) I may want to post a list of projects, including project reports, to the course website. If you do not want your project posted, please indicate this in the final writeup.

You can e-mail your final report to me. pdf or word document is fine, the code should be attached too.

# Introduction

Explain the purpose of the paper. In most cases, the Introduction summarizes the theoretical importance and previous research in the area and includes a clear statement of the research hypotheses or aims of the paper.

The Introduction begins a new page.

# Method

Describe the study in enough detail to permit another investigator to replicate it. The Method section is often divided into three subsections: Subjects, Apparatus or Research Instruments/Tools (if necessary), and Procedures.

The Method section continues on the same page after the end of the Introduction.

## Subjects

This sub-section is optional.

## Apparatus (or Research Instruments/Tools)

This sub-section is optional.

## Procedures

This sub-section is optional.

# Results

Summarize the data and the statistical treatment of them. Graphs and tables should be included if they make the results more intelligible.

The Results section continues on the same page after the end of the Method section.

# Discussion

Evaluation and implications of the research, including how the results support or do not support the argument; comparison of results with previous research; and problems with the research.

The Discussion section continues on the same page after the end of the Results section.

# Appendices

Includes supplementary material not appropriate in the body of the report

The Appendices section begins a new page.

# References

In the research report, all references to previous research or ideas will be accompanied by a reference citation of the original author.

The References section begins a new page.

The following are examples of appropriate layout for references:

[Author Last Name, First Name]. [Year]. [Book Title]. [Publisher].

[Author Last Name, First Name]. [Year]. "[Article Title]." [*Periodical Name*] [Volume]([Number]): [Pages].

The entries have these elements: author(s); year of publication; title; and source (publisher for books, and title of journal for reports or articles). Book titles are underlined; titles of articles are in quotation marks; journal titles are italicized. The journal title is followed by the volume number, then the number within the volume (or the month or season, depending upon the journal's style) in parentheses, and then the page numbers.

## Citing Internet Sources

There differing styles and no standard for citing Internet sources. Check with your instructor about whether your institution has a preferred style. In the absence of one, use the following style, which is adapted from the periodical reference mentioned earlier:

[Author Last Name, First Name]. [Year]. [Web Page Title]. [Website title or owner]. [Website URL] (accessed [Date accessed]).